# CERTIFICATE OF CALIBRATION

ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 26th August 2025 CERTIFICATE No: 937422

UKAS CALIBRATION
0495



Lambda CALIBRATION LTD

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APPROVED SIGNATORY

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| | |
|---|---|
| Customer: | DJB Labcare Ltd, Milton Keynes, MK16 9QS |
| Item No: | 1632 |
| Description: | Calibrator |
| Model/Range: | TC303 |
| Manufacturer: | Beamex |
| Date of Cal: | 21/08/2025 to 22/08/2025 |
| Basis: | E-2000 |
| Equipment Used: | Multifunction Calibrator (LMMC-10), Longscale Multimeter (LVD-37), Thermocouple Thermometer (LTHE-22), Thermocouple Probe (LTP-18) |
| Temp/Humidity: | 20°C ± 2°C, <80%rh |

Visual /Operational Checks:

| | |
|---|---|
| Unit Under Test (UUT) Condition | Functional |
| Condition of Supplied Leads | Functional |
| Battery | Does not hold charge |

Summary of Results:

| | |
|---|---|
| Pre Calibration Status | Results reported as found |
| Post Calibration Status | Results reported as found |
| Adjustments | No |
| Repairs | No |
| Comments | - |

Measured results and measurement uncertainties are detailed on the following pages.

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Reference Temperature Error

The UUT was left overnight to stabilise. The UUT indication from a calibrated thermocouple probe was compared to a laboratory reference probe.

| UUT Indication (°C) | Reference Temperature (°C) | Error (°C) |
|---|---|---|
| 21.0 | 20.81 | 0.19 |

Reference probe reported temperature: 20.81°C

Measurement Mode:
The UUT was set to T-Type thermocouple, reference temperature set to 0°C. Voltages equivalent to the Nominal Temperatures were applied.

| Nominal Temperature (°C) | Applied Voltage (mV) | UUT Indication (°C) |
|---|---|---|
| -190.0 | -5.439 | -190.1 |
| -80.0 | -2.788 | -80.0 |
| -50.0 | -1.819 | -50.0 |
| -30.0 | -1.121 | -30.0 |
| -10.0 | -0.388 | -10.2 |
| 0.0 | 0.000 | 0.0 |
| 4.0 | 0.156 | 4.0 |
| 37.0 | 1.486 | 37.0 |
| 50.0 | 2.036 | 50.0 |
| 100.0 | 4.273 | 100.0 |
| 150.0 | 6.704 | 150.0 |
| 200.0 | 9.288 | 200.0 |
| 250.0 | 12.013 | 250.0 |
| 300.0 | 14.862 | 300.0 |
| 390.0 | 20.255 | 390.0 |

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Simulation Mode

The UUT was set to T Type thermocouple simulate, with reference temperature set to 0°C. The UUT output voltage was measured.

| UUT Setting (°C) | Nominal Output (mV) | Measured Output (mV) | Equivalent Temperature (°C) |
|---|---|---|---|
| -190.0 | -5.439 | -5.437 | -189.9 |
| -80.0 | -2.788 | -2.785 | 79.9 |
| -50.0 | -1.819 | -1.818 | -50.0 |
| -30.0 | -1.121 | -1.120 | -30.0 |
| -10.0 | -0.383 | -0.382 | -10.0 |
| 0.0 | 0.000 | 0.000 | 0.0 |
| 4.0 | 0.156 | 0.156 | 4.0 |
| 37.0 | 1.486 | 1.488 | 37.0 |
| 50.0 | 2.036 | 2.037 | 50.0 |
| 100.0 | 4.279 | 4.279 | 100.0 |
| 150.0 | 6.704 | 6.703 | 150.0 |
| 200.0 | 9.288 | 9.287 | 200.0 |
| 250.0 | 12.013 | 12.013 | 250.0 |
| 300.0 | 14.862 | 14.862 | 300.0 |
| 390.0 | 20.255 | 20.255 | 390.0 |

End of Results

Estimated Uncertainty of Measurement:

Reference Junction Measurement: ±0.12°C
Simulated Temperature: ±0.13°C
DC Voltage Measurement: ±(93ppm + 4.1µV)